

LITERATURE SEARCH PERFORMED ON JUNE 17, 2002 BY NANCY MILLER

ChemID database

MeSH Heading

- Cascara

Name of Substance

- Cascara

Synonyms

- Cascara sagrada
- Sagrada

Systematic Name

- Phenol, 2,2'-methylenebis(5-chloro-, mixt. with cascara sagrada and piperazine

Classification Code

- Cathartics

Molecular Formula

- C13-H10-Cl2-O2.C4-H10-N2.-Unspecified

File Locator

- CANCERLIT
- DART/ETIC
- MEDLINE
- MESH
- MESH HEADING
- TOXLINE

Note

- Component of the dried bark of a buckthorn (*Rhamnus purshiana*) that contains the anthraquinone EMODIN. It is used as a laxative.

CAS Registry Number

- 8047-27-6

DART/ETIC database:

The following information was generated from the Toxicology Literature Online Databank (TOXLINE), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>) on June 17, 2002.

Query: CAS Registry Number:

8047-27-6

The word DART in the Database field.

Gastrointestinal drugs.

Schardein JL

Chemically Induced Birth Defects 1993;2:445-56

Drug use during pregnancy and lactation.

Larimore WL; Petrie KA

Prim Care 2000 Mar;27(1):35-53

Drugs in breast milk 2000.

Busser J; Schultz J

Frontiers in Fetal Health 2001 Jan;3(1):11-22

DRUGS IN PREGNANCY AND LACTATION: A REFERENCE GUIDE TO FETAL AND NEONATAL RISK
(DRUGS C)

BRIGGS GG; BODENDORFER TW; FREEMAN RK; YAFFE SJ

DRUGS PREG LACTATION :42-100,1984

DRUG USE DURING PREGNANCY AND BREAST-FEEDING: A CLASSIFICATION SYSTEM FOR DRUG INFORMATION

BERGLUND F; FLODH H; LUNDBORG P; PRAME B; SANNERSTEDT R

ACTA OBSTET GYNECOL SCAND SUPPL 126:1-55,1984

Gastrointestinal medications during pregnancy.

Gilstrap LC 3d; Little BB

Drugs and Pregnancy 1992,:277-91

Toxline database:

The following information was generated from the Toxicology Literature Online Databank (TOXLINE), a database of the National Library of Medicine's TOXNET system (<http://toxnet.nlm.nih.gov>) on June 17, 2002.

Query: The chemical name cascara was identified.

The following terms were added from ChemIDplus:

cascara

sagrada

cascara sagrada

CAS Registry Number: 8047-27-6

Cascara sagrada: new standards are needed

Leung AY

Drug Cosmet. Ind.; VOL 121 ISS Dec 1977, P42-44, 143-144, (REF) [IPA]

Separation of anthraquinones from cascara sagrada by high pressure liquid chromatography

Quercia V

Boll. Chim. Farm.; VOL 115 ISS Apr 1976, P309-316, (REF 16) [Italian] [IPA]

Are oral cathartics of value in optimizing the gallium scan? Concise communication

Silberstein EB; Fernandez-Ulloa M; Hall J

J. Nucl. Med.; VOL 22 ISS May 1981, P424-427, (REF 11) [IPA]

Pharmaceutical Applications of Isopropyl Alcohol. I. As a Solvent in Pharmaceutical Manufacturing

Burlage HM; Hawkins DB

Journal of the American Pharmaceutical Association, Scientific Edition, Vol. 35, No. 12, (Paper presented at the Pittsburg meeting of the Scientific Section, American Pharmaceutical Association, 1946) pages 379-384, 58 references, 19461946 [NIOSH]

New dry extract of cascara (*Rhamnus purshiana* DC bark)
Fairbairn JW; Simic S
J. Pharm. Pharmacol.; VOL 22 ISS Oct 1970, P778-780, (REF 1) [IPA]

Gastrointestinal medications during pregnancy.
Gilstrap LC 3d; Little BB
Drugs and Pregnancy 1992;:277-91 [DART]

Gastrointestinal drugs.
Schardein JL
Chemically Induced Birth Defects 1993;2:445-56 [DART]

Trees and shrubs constitute the sources for important medicinals
Mercer FL
Pharm. Times; VOL 43 ISS Sep 1977, P103-110, (REF) [IPA]

DRUGS IN PREGNANCY AND LACTATION: A REFERENCE GUIDE TO FETAL AND NEONATAL RISK (DRUGS C)
BRIGGS GG; BODENDORFER TW; FREEMAN RK; YAFFE SJ
DRUGS PREG LACTATION :42-100,1984 [DART]

Pharmacological activity of an herbal extract: controlled clinical study
Borgia M; Sepe N; Borgia R; Ori-Bellometti M
Curr. Ther. Res.; VOL 29 ISS Mar (Sec 2) 1981, P525-536, (REF 18) [IPA]

MUTAGENICITY OF ANTHRA QUINONE DERIVATIVES AND RELATED COMPOUNDS IN-VITRO TESTS WITH THE SALMONELLA-TYPHIMURIUM MICROSOMAL SYSTEM
BROWN JP; BROWN RJ
MUTAT RES; 38 (6). 1976 389 [HEEP]

Is man helpless against cancer? An environmental approach: antimutagenic agents from Egyptian food and medicinal preparations.
Badria FA
Cancer Lett 1994 Aug 29;84(1):1-5 [EMIC]

Natural hydroxyanthracenic polyglycosides as sunscreens
Bader S; Carinelli L; Cozzi R; Cozzoli O
Cosmet. Toiletries; VOL 96 ISS Oct 1981, P67-74, (REF 9) [IPA]

Laxative-induced diarrhea: a continuing clinical problem
Cummings JH; Sladen GE; James OFW; Sarner M; Misiewicz JJ
Br. Med. J.; VOL 1 ISS Mar 23 1974, P537-541, (REF 49) [IPA]

Plant laxatives with anthranoids as active substances
Koch A; Kraus L
Dtsch. Apoth. Ztg.; VOL 131 ISS Jul 11 1991, P1459-1466, (REF 24) [German] [IPA]

Toxicology and carcinogenesis studies of Emodin in F344/N rats and B6C3F1 mice (feed studies)
Anonymous
TA:National Toxicology Program Technical Report Series PG:278 p YR:2001 IP: VI:493 [RISKLINER]

Serotyping, proteinase and phospholipase production associated with the pathogenicity of *Candida albicans* strains isolated from frog meat.
NOGUEIRA M GA; MOREIRA YK; ROCHA OA; CASSALI GD; RESENDE M AD
REVISTA DE MICROBIOLOGIA; 26 (2). 1995. 130-134. [BIOSIS]

Drug use during pregnancy and lactation.

Larimore WL; Petrie KA
Prim Care 2000 Mar;27(1):35-53 [DART]

Drugs in breast milk 2000.

Busser J; Schultz J
Frontiers in Fetal Health 2001 Jan;3(1):11-22 [DART]

Analysis of the principle constituents in extracts of cascara and frangula by high pressure liquid chromatography
Terracciano M; Gambero P; Percaccio G; Donatelli I; Quercia V
Boll. Chim. Farm.; VOL 116 ISS Jul 1977, P402-409, (REF 15) [Italian] [IPA]

DRUG USE DURING PREGNANCY AND BREAST-FEEDING: A CLASSIFICATION SYSTEM FOR DRUG INFORMATION
BERGLUND F; FLODH H; LUNDBORG P; PRAME B; SANNERSTEDT R
ACTA OBSTET GYNECOL SCAND SUPPL 126:1-55, 1984 [DART]

Comparative anatomic and micrographic study of the barks from the stems of Rhamnus staddo A. Rich., cascara, and Frangula
Melotte R; Denoel A
J. Pharm. Belg.; VOL 26 ISS Jan-Feb 1971, P31-37, (REF) [French] [IPA]

Investigation of the activity of a quaternary scopolamine derivative (cimetropium bromide) on intestinal motility
Sagrada A; Schiavone A; Cervo G; Giachetti A
Boll. Chim. Farm.; VOL 125 ISS Feb 1986, P75-79, (REF 8) [Italian] [IPA]

Studies on active constituents of Cassia fistula pulp. I. Colorimetric estimation of free rhein and combined sennidin-like compounds.
Kapadia GJ; Khorana ML
Lloydia, Vol. 25, 1, p. 55-58, 1962 [PPBIB]

Medline database:

Search term: Cascara
Limits: limited to title
Retrieval:

1: Borrelli F, Mereto E, Capasso F, Orsi P, Sini D, Izzo AA, Massa B, Boggio M, Mascolo N.
Effect of bisacodyl and cascara on growth of aberrant crypt foci and malignant tumors in the rat colon.
Life Sci. 2001 Sep 7;69(16):1871-7.
PMID: 11693267 [PubMed - indexed for MEDLINE]

2: Nadir A, Reddy D, Van Thiel DH.
Cascara sagrada-induced intrahepatic cholestasis causing portal hypertension:

case report and review of herbal hepatotoxicity.

Am J Gastroenterol. 2000 Dec;95(12):3634-7.

PMID: 11151906 [PubMed - indexed for MEDLINE]

3: Izzo AA, Sautebin L, Rombola L, Capasso F.

The role of constitutive and inducible nitric oxide synthase in senna- and cascara-induced diarrhoea in the rat.

Eur J Pharmacol. 1997 Mar 26;323(1):93-7.

PMID: 9105882 [PubMed - indexed for MEDLINE]

4: Izzo AA, Gaginella TS, Mascolo N, Borrelli F, Capasso F.

NG-nitro-L-arginine methyl ester reduces senna- and cascara-induced diarrhoea and fluid secretion in the rat.

Eur J Pharmacol. 1996 Apr 22;301(1-3):137-42.

PMID: 8773457 [PubMed - indexed for MEDLINE]

5: Mereto E, Ghia M, Brambilla G.

Evaluation of the potential carcinogenic activity of Senna and Cascara glycosides for the rat colon.

Cancer Lett. 1996 Mar 19;101(1):79-83.

PMID: 8625286 [PubMed - indexed for MEDLINE]

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Bicascarosides in fluid extracts of cascara.

Planta Med. 1991 Oct;57(5):440-3.

PMID: 1798797 [PubMed - indexed for MEDLINE]

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[Evaluation of the choleric property of 2 preparations containing extracts of boldo and cascara]

Minerva Dietol Gastroenterol. 1984 Jul-Sep;30(3):269-72. Italian. No abstract available.

PMID: 6504376 [PubMed - indexed for MEDLINE]

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[Clinical experience with a preparation containing cascara sagrada and boldo in the therapy of simple constipation in the elderly]

G Clin Med. 1982 Nov-Dec;63(11-12):850-63. Italian. No abstract available.

PMID: 7182205 [PubMed - indexed for MEDLINE]

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[Experience with Cascara-Salax preparing children for barium enema]

Rontgenblatter. 1980 Aug;33(8):418-21. German.

PMID: 7403795 [PubMed - indexed for MEDLINE]

10: Terracciano M, Gambero P, Percaccio G, Donatelli I, Quercia V.

[Analytical study using high-pressure liquid chromatography of Cascara and Frangula extracts]

Boll Chim Farm. 1977 Jul;116(7):402-9. Italian. No abstract available.

PMID: 332200 [PubMed - indexed for MEDLINE]

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[Separation of anthraquinone compounds of Cascara sagrada by means of high-pressure liquid chromatography]

Boll Chim Farm. 1976 Apr;115(4):309-16. Italian. No abstract available.

PMID: 952669 [PubMed - indexed for MEDLINE]

12: [No authors listed]
Recommended methods for the evaluation of drugs. The chemical assay of cascara bark and cascara dry extract.
Analyst. 1973 Nov;98(172):830-7. No abstract available.
PMID: 4762388 [PubMed - indexed for MEDLINE]

13: Melotte R, Denoel A.
[Anatomical and micrograph study of the cortex of branches of Rhamnus staddo A Rich. Comparison with Cascara and Frangula]
J Pharm Belg. 1971 Jan-Feb;26(1):31-7. French. No abstract available.
PMID: 4934428 [PubMed - indexed for MEDLINE]

14: Fairbairn JW, Simic S.
A new dry extract of cascara (Rhamnus purshiana D.C. bark).
J Pharm Pharmacol. 1970 Oct;22(10):778-80. No abstract available.
PMID: 4394785 [PubMed - indexed for MEDLINE]

15: Gyanchandani ND, Yamamoto M, Nigam IC.
Anthraquinone drugs. I. Thin-layer chromatographic identification of aloes, cascara, senna, and certain synthetic laxatives in pharmaceutical dosage forms.
J Pharm Sci. 1969 Feb;58(2):197-200. No abstract available.
PMID: 5779859 [PubMed - indexed for MEDLINE]

16: [No authors listed]
The chemical assay of cascara dry extract, cascara tablets and cascara bark.
Analyst. 1968 Nov;93(112):749-55. No abstract available.
PMID: 5698466 [PubMed - indexed for MEDLINE]

17: Longo R, Fumagalli U.
[Method of chemical analysis of the anthrone components of cascara sagrada]
Boll Chim Farm. 1965 Dec;104(12):824-7. Italian. No abstract available.
PMID: 5882893 [PubMed - indexed for MEDLINE]

Medline database:

Search term: Cascara
No limits
Rebrieval:

1: Vath P, Wamer WG, Falvey DE.
Photochemistry and phototoxicity of aloe emodin.
Photochem Photobiol. 2002 Apr;75(4):346-52.
PMID: 12003123 [PubMed - indexed for MEDLINE]

2: [No authors listed]
Status of certain additional over-the-counter drug category II and III active ingredients. Final rule.
Fed Regist. 2002 May 9;67(90):31125-7.
PMID: 12001972 [PubMed - indexed for MEDLINE]

3: Wasserman L, Avigad S, Beery E, Nordenberg J, Fenig E.
The effect of aloe emodin on the proliferation of a new merkel carcinoma cell line.
Am J Dermatopathol. 2002 Feb;24(1):17-22.
PMID: 11803275 [PubMed - indexed for MEDLINE]

- 4: Liu G, Ye R, Tan Z.
[Effect of emodin on fibroblasts in lupus nephritis]
Zhongguo Zhong Xi Yi Jie He Za Zhi. 2000 Mar;20(3):196-8. Chinese.
PMID: 11789284 [PubMed - indexed for MEDLINE]
- 5: Zhan Y, Li D, Wei H.
[Effect of emodin on development of hepatic fibrosis in rats]
Zhongguo Zhong Xi Yi Jie He Za Zhi. 2000 Apr;20(4):276-8. Chinese.
PMID: 11789266 [PubMed - indexed for MEDLINE]
- 6: Xu C, Yin C, Wang S.
Effect of aloe-emodin on expression of proliferating cell nuclear antigen of vascular smooth muscle cells in culture after arterial injury.
Chin Med J (Engl). 2001 Jun;114(6):571-6.
PMID: 11780429 [PubMed - indexed for MEDLINE]
- 7: Zhan Y, Li D, Wei H, Wang Z, Huang X, Xu Q, Lu H.
Emodin on hepatic fibrosis in rats.
Chin Med J (Engl). 2000 Jul;113(7):599-601.
PMID: 11776026 [PubMed - indexed for MEDLINE]
- 8: Lee HZ, Hsu SL, Liu MC, Wu CH.
Effects and mechanisms of aloe-emodin on cell death in human lung squamous cell carcinoma.
Eur J Pharmacol. 2001 Nov 23;431(3):287-95.
PMID: 11730720 [PubMed - indexed for MEDLINE]
- 9: Borrelli F, Mereto E, Capasso F, Orsi P, Sini D, Izzo AA, Massa B, Boggio M, Mascolo N.
Effect of bisacodyl and cascara on growth of aberrant crypt foci and malignant tumors in the rat colon.
Life Sci. 2001 Sep 7;69(16):1871-7.
PMID: 11693267 [PubMed - indexed for MEDLINE]
- 10: Lee HZ.
Protein kinase C involvement in aloe-emodin- and emodin-induced apoptosis in lung carcinoma cell.
Br J Pharmacol. 2001 Nov;134(5):1093-103.
PMID: 11682458 [PubMed - indexed for MEDLINE]
- 11: Battistutta R, De Moliner E, Sarno S, Zanotti G, Pinna LA.
Structural features underlying selective inhibition of protein kinase CK2 by ATP site-directed tetrabromo-2-benzotriazole.
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PMID: 11604527 [PubMed - indexed for MEDLINE]
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PMID: 11602058 [PubMed - indexed for MEDLINE]
- 13: Min D, Xu L, Zhang Z, Wang H, Huang D, Guo D, Zheng J.
[Chemical constituents of Rheum wittrochii Lundstr(I)]
Zhongguo Zhong Yao Za Zhi. 1998 Jul;23(7):416-8, 447. Chinese.
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J Agric Food Chem. 2001 Oct;49(10):4526-30.
PMID: 11599983 [PubMed - indexed for MEDLINE]

15: Nagashima H, Nakamura K, Goto T.
Hepatotoxin rubratoxin B induced the secretion of TNF-alpha, IL-8, and MCP-1 in HL60 cells.
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16: Rahimipour S, Bilkis I, Peron V, Gescheidt G, Barbosa F, Mazur Y, Koch Y, Weiner L, Fridkin M.
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Photochem Photobiol. 2001 Aug;74(2):226-36.
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18: Maity TK, Mandal SC, Bhakta T, Pal M, Saha BP.
Metabolism of 1,8-dihydroxy 3-hydroxy methyl anthraquinone (aloe-emodin) isolated from the leaves of Cassia tora in albino rats.
Phytother Res. 2001 Aug;15(5):459-60.
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Yao Xue Xue Bao. 1997 Apr;32(4):310-3. Chinese.
PMID: 11499036 [PubMed - indexed for MEDLINE]

21: Yin C, Xu C.
[Effect of aloe-emodin on proliferation of vascular smooth muscle cells after arterial injury]
Zhongguo Zhong Xi Yi Jie He Za Zhi. 1998 Jul;18(7):420-2. Chinese.
PMID: 11477819 [PubMed - indexed for MEDLINE]

22: Matsuda H, Shimoda H, Morikawa T, Yoshikawa M.
Phytoestrogens from the roots of Polygonum cuspidatum (Polygonaceae): structure-requirement of hydroxyanthraquinones for estrogenic activity.
Bioorg Med Chem Lett. 2001 Jul 23;11(14):1839-42.
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23: Donella-Deana A, Cesaro L, Sarno S, Brunati AM, Ruzzene M, Pinna LA.
Autocatalytic tyrosine-phosphorylation of protein kinase CK2 alpha and alpha' subunits: implication of Tyr182.
Biochem J. 2001 Jul 15;357(Pt 2):563-7.
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Selectivity of 4,5,6,7-tetrabromobenzotriazole, an ATP site-directed inhibitor of protein kinase CK2 ('casein kinase-2').
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Comparative evaluation of antioxidant potential of alaternin (2-hydroxyemodin) and emodin.
J Agric Food Chem. 2000 Dec;48(12):6347-51.
PMID: 11312806 [PubMed - indexed for MEDLINE]
- 26: Kuo YC, Meng HC, Tsai WJ.
Regulation of cell proliferation, inflammatory cytokine production and calcium mobilization in primary human T lymphocytes by emodin from *Polygonum hypoleucum* Ohwi.
Inflamm Res. 2001 Feb;50(2):73-82.
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Determination of pKa values of anthraquinone compounds by capillary electrophoresis.
Electrophoresis. 2001 Feb;22(3):464-9.
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Z Naturforsch [C]. 2000 Nov-Dec;55(11-12):910-4.
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Biochem Pharmacol. 2000 Jun 1;59(11):1445-57.
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- 31: Nadir A, Reddy D, Van Thiel DH.
Cascara sagrada-induced intrahepatic cholestasis causing portal hypertension: case report and review of herbal hepatotoxicity.
Am J Gastroenterol. 2000 Dec;95(12):3634-7.
PMID: 11151906 [PubMed - indexed for MEDLINE]
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Aloe-Emodin quinone pretreatment reduces acute liver injury induced by carbon tetrachloride.
Pharmacol Toxicol. 2000 Nov;87(5):229-33.
PMID: 11129503 [PubMed - indexed for MEDLINE]

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Induction of primary cutaneous melanomas in C3H mice by combined treatment with ultraviolet radiation, ethanol and aloe emodin.

Photochem Photobiol. 2000 Sep;72(3):407-14.

PMID: 10989613 [PubMed - indexed for MEDLINE]

34: Battistutta R, Sarno S, De Moliner E, Papinutto E, Zanotti G, Pinna LA.

The replacement of ATP by the competitive inhibitor emodin induces

conformational modifications in the catalytic site of protein kinase CK2.

J Biol Chem. 2000 Sep 22;275(38):29618-22.

PMID: 10882732 [PubMed - indexed for MEDLINE]

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Phytotoxic compounds from the new coprophilous fungus *guanomyces polythrix*.

J Nat Prod. 2000 Jun;63(6):757-61.

PMID: 10869195 [PubMed - indexed for MEDLINE]

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Aloe-emodin is a new type of anticancer agent with selective activity against neuroectodermal tumors.

Cancer Res. 2000 Jun 1;60(11):2800-4.

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lipopolysaccharide-activated macrophages.

Bioorg Med Chem Lett. 2000 Feb 21;10(4):323-7.

PMID: 10714491 [PubMed - indexed for MEDLINE]

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[Determination of emodin in kangnaoshuai capsules and in radix *Polygoni multiflori* by thin layer chromatography scanning]

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PMID: 10683908 [PubMed - indexed for MEDLINE]

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[Optimization of quenching system for determination of emodin and chrysophanol by chemiluminescence method]

Hua Xi Yi Ke Da Xue Xue Bao. 1997 Sep;28(3):341-3. Chinese.

PMID: 10684049 [PubMed - indexed for MEDLINE]

40: Fugh-Berman A.

Herb-drug interactions.

Lancet. 2000 Jan 8;355(9198):134-8. Review.

PMID: 10675182 [PubMed - indexed for MEDLINE]

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Myocardial protection by protykin, a novel extract of trans-resveratrol and emodin.

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Immunomodulatory constituents from an ascomycete, *Microascus tardifaciens*.

Chem Pharm Bull (Tokyo). 1999 Oct;47(10):1426-32.

PMID: 10553639 [PubMed - indexed for MEDLINE]

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Onderstepoort J Vet Res. 1999 Mar;66(1):25-8.

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Enhanced adenoviral transduction efficiency in HER-2/neu-overexpressing human breast cancer cells not induced by an integrin pathway.

Oncol Rep. 1999 Nov-Dec;6(6):1237-42.

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The application of the micronucleus test in Chinese hamster V79 cells to detect drug-induced photogenotoxicity.

Mutat Res. 1999 Sep 15;445(1):55-71.

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West Afr J Med. 1999 Apr-Jun;18(2):110-3.

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Occurrence of emodin, chrysophanol and physcion in vegetables, herbs and liquors. Genotoxicity and anti-genotoxicity of the anthraquinones and of the whole plants.

Food Chem Toxicol. 1999 May;37(5):481-91.

PMID: 10456676 [PubMed - indexed for MEDLINE]

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Characterization of the genotoxicity of anthraquinones in mammalian cells.

Biochim Biophys Acta. 1999 Aug 5;1428(2-3):406-14.

PMID: 10434060 [PubMed - indexed for MEDLINE]

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A novel function of emodin: enhancement of the nucleotide excision repair of UV- and cisplatin-induced DNA damage in human cells.

Biochem Pharmacol. 1999 Jul 1;58(1):49-57.

PMID: 10403518 [PubMed - indexed for MEDLINE]

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Alaternin, cassiaside and rubrofusarin gentiobioside, radical scavenging principles from the seeds of Cassia tora on 1,1-diphenyl-2-picrylhydrazyl (DPPH) radical.

Arch Pharm Res. 1994 Dec;17(6):462-6.

PMID: 10319159 [PubMed - indexed for MEDLINE]

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TI Effect of bisacodyl and cascara on growth of aberrant crypt foci and malignant tumors in the rat colon

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TI HPLC in the determination of some anthraquinone glycosides

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TI Analytical study using high-pressure liquid chromatography of Cascara and Frangula extracts
Original Title: Indagine analitica per HPLC sui principali costituenti degli estratti di Cascara e di Frangula

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TI Anthraquinone derivatives in vegetable laxatives

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TI The anthraquinone laxatives. Biological assay and its relation to chemical structure

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TI Cleansing of the colon without enemas

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TI Melanosis coli with liver involvement

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Search term: Cascara

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Authors: Izzo, AA; Gaginella, TS; Mascolo, N; Capasso, F

Title: Recent findings on the mode of action of laxatives: the role of platelet activating factor and nitric oxide

Source: TRENDS IN PHARMACOLOGICAL SCIENCES, 19 (10): 403-405 OCT 1998

Language: English

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Authors: Signoretti, EC; Valvo, L; Santucci, M; Onori, S; Fattibene, P; Vincieri, FF; Mulinacci, N

Title: Ionizing radiation induced effects on medicinal vegetable products. Cascara bark

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Authors: Izzo, AA; Mascolo, N; Capasso, F

Title: Nitric oxide as a modulator of intestinal water and electrolyte transport

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Language: English

Document type: Review

IDS No.: 112BV

Authors: Borrelli, F; Mereto, E; Capasso, F; Orsi, P; Sini, D; Izzo, AA; Massa, B; Boggio, M; Mascolo, N

Title: Effect of bisacodyl and cascara on growth of aberrant crypt foci and malignant tumors in the rat colon

Source: LIFE SCIENCES, 69 (16): 1871-1877 SEP 7 2001

Language: English

Document type: Article

IDS No.: 473AD

Authors: Nadir, A; Reddy, D; Van Thiel, DH

Title: Cascara sagrada-induced intrahepatic cholestasis causing portal hypertension: Case report and review of herbal hepatotoxicity

Source: AMERICAN JOURNAL OF GASTROENTEROLOGY, 95 (12): 3634-3637 DEC 2000

Language: English

Document type: Article

IDS No.: 383GC

Authors: Renner, A; Cupp, MJ

Title: Cascara sagrada

Source: TOXICOLOGY AND CLINICAL PHARMACOLOGY OF HERBAL PRODUCTS, 283-287 2000

Language: English

Document type: Article
IDS No.: BP61L

Authors: Fugh-Berman, A
Title: Herb-drug interactions
Source: LANCET, 355 (9198): 134-138 JAN 8 2000
Language: English
Document type: Review
IDS No.: 288HT

Authors: Du Plessis, DH; Van Wyngaardt, W; Romito, M; Du Plessis, M; Maree, S
Title: The use of chicken IgY in a double antibody sandwich ELISA for detecting African horsesickness virus
Source: ONDERSTEPOORT JOURNAL OF VETERINARY RESEARCH, 66 (1): 25-28 MAR 1999
Language: English
Document type: Article
IDS No.: 210VX

Authors: Izzo, AA; Sautebin, L; Borrelli, F; Longo, R; Capasso, F
Title: The role of nitric oxide in aloe-induced diarrhoea in the rat
Source: EUROPEAN JOURNAL OF PHARMACOLOGY, 368 (1): 43-48 FEB 26 1999
Language: English
Document type: Article
IDS No.: 173VX

Authors: Giavina-Bianchi, PF; Castro, FFM; Machado, MLS; Duarte, AJS
Title: Occupational respiratory allergic disease induced by Passiflora alata and Rhamnus purshiana
Source: ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY, 79 (5): 449-454 NOV 1997
Language: English
Document type: Article
IDS No.: YJ916